

ISTEP+ Spring 2014

Indiana Statewide Testing for Educational Progress Plus

Mathematics • English/Language Arts
Grade 8

Web Version



Use only a Number 2 pencil to respond to the questions in this book. Responses written in pen CANNOT be scored.

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"Telling Plastic to 'Bag It'" by Patricia Smith, from *Scholastic Classroom Magazine's The New York Times Upfront*, March 12, 2012. Text copyright © 2012 by Scholastic Inc. Used by permission.

Photograph of plastic garbage on ground and fence (Image No. AAJJ001142), photo copyright © Ashley Cooper/Corbis. Used by permission.

Lyrics from *Back Home Again in Indiana* by James Frederick Hanley and Ballard MacDonald, 1917.

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**DO
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PAGE**

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If you see this symbol, you may use your reference sheet to help solve the problem.



If you see this symbol, you may use a calculator to solve problems in the test.

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Session 1

NOTE: A correct answer **CANNOT** receive full credit if no work is shown.

Since you may receive partial credit for all problems in this test, it is important to show ALL work in the spaces provided in this book. When you see the words **Show All Work**, be sure to

- **show all the steps needed to solve the problem**
- **make your handwriting clear and easy to read**
- **write the answer on the answer line**

As you complete each problem, remember to

- READ** the problem carefully
- PLAN** how to solve the problem
- SOLVE** the problem showing all steps
- CHECK** your work

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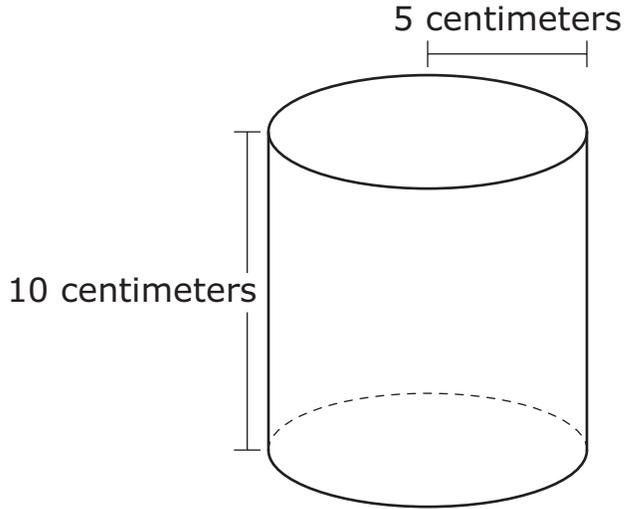


Session 1: Mathematics

1



Becky needs to transfer liquid to a vase using the cylindrical container, with a radius of 5 centimeters and a height of 10 centimeters, shown in the diagram below.



- Becky will fill the vase to 75% capacity.
- The vase has a volume of 2,800 cubic centimeters.
- Becky will completely fill the container each time it is used to fill the vase.

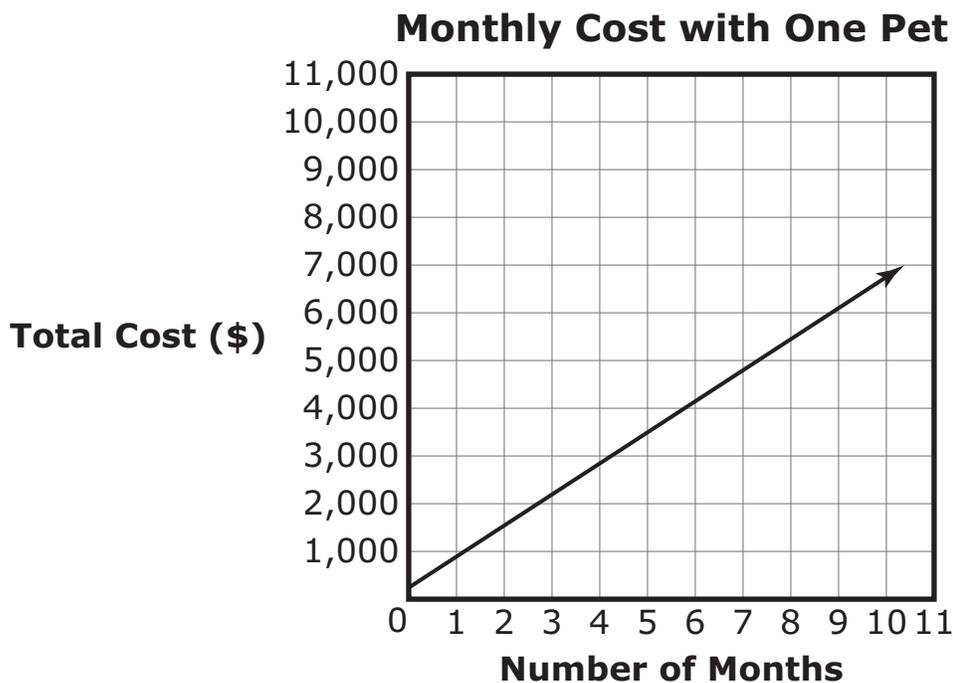
How many times will Becky need to fill the container to fill the vase to 75% capacity? Use 3.14 for π .

Show All Work

Answer _____

Go On

- 2** The graph below shows the total cost, y , to live at the West Apartments with 1 pet for x number of months.



The apartment charges \$650 each month and a one-time fee of \$250 for each pet.

Write an equation that can be used to determine the total cost, y , for a person with 1 pet to live at the West Apartments for x months.

Equation _____

Go On 

Session 1

Complete the table below to determine the total cost for a person with 1 pet to live at the West Apartments for the given number of months.

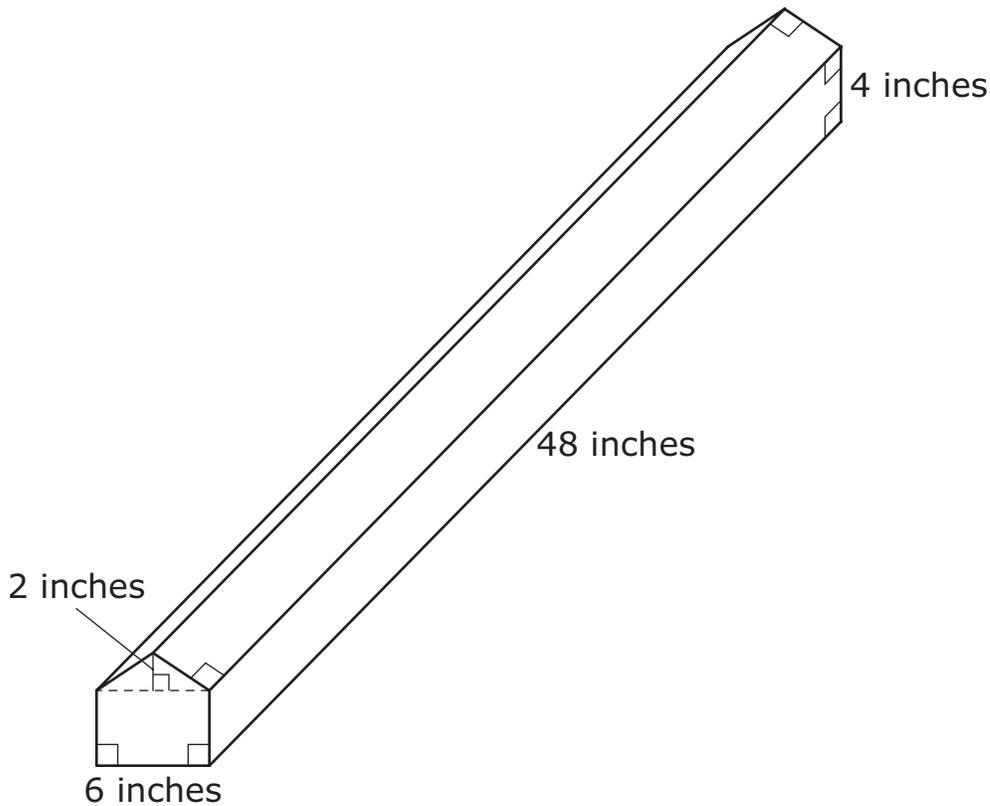
Show All Work

Number of Months	Total Cost (\$)
6	
12	
18	
24	

Session 1

3

A store is buying concrete blocks for its parking lot. A diagram of a block is shown below.



What is the volume, in cubic inches, of one block?

Show All Work

Answer _____ cubic inches

Go On



Session 1

The store is charged \$3 for every 360 cubic inches of concrete used to make the block.

What is the cost of concrete for one block? Do NOT include tax.

Show All Work

Answer \$ _____



- 4** Emilio is remodeling his bathroom. He has already spent \$600 on the remodel. He needs to buy 150 tiles for the floor and cannot spend more than \$1,500 on the entire bathroom.

On the line below, write an inequality that can be used to determine the maximum amount of money, m , Emilio can spend per tile and stay within his budget.

Inequality _____

What is the maximum amount of money that Emilio can spend per tile and stay within his budget? Do NOT include tax.

Show All Work

Answer \$ _____ per tile

Emilio buys a sink and a countertop. The sink and countertop cost $\frac{1}{2}$ of what Emilio has remaining in his budget.

If Emilio spends only \$2.50 per tile, how much money will he have left in his budget? Do NOT include tax.

Show All Work

Answer \$ _____

STOP! - - - **STOP!** - - - **STOP!** - - - **STOP!** - - - **STOP!** - - -



ATTENTION!

Do NOT go on
until you are
told to do so.



STOP



ATTENTION! Please do not leave your
punchouts or reference sheet in this book.



Whenever you see this icon, you will be doing a writing activity. Your writing will not be scored on your personal opinions or choices, but will be scored objectively on

- how clearly you address the prompt
- how well you organize your ideas
- how effectively you express yourself
- how consistently you use correct paragraphing, grammar, spelling, and punctuation

Be sure to use the rules of Standard English. Standard English is the English commonly used in formal writing. It does not include slang or jargon.

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DO NOT WRITE HERE ↓

Go On



Session 2: English/Language Arts

1 Class Leadership Roles

Read the writing prompt below and complete the writing activity.

It's the beginning of the school year, and the teacher is assigning class leadership roles. Some of these roles include field trip planner, lunchroom monitor, and class pet caretaker.

Write an essay to your teacher in which you explain what leadership role you would like to be assigned and tell why you want to lead that activity. You may choose one of the roles above or create your own role.

Be sure to include

- a title and description of the leadership role you want
- a description of the knowledge, experience, or skills you have that make you a good candidate for the leadership role
- how this leadership experience would help you
- an introduction, a body, and a conclusion to your essay

Session 2

Use the blank Prewriting/Planning space below for notes, lists, webs, outlines, or anything else that might help you plan your writing. If you need additional paper for planning, raise your hand and your teacher will give you more paper. **You must write your final draft on the lines beginning at the top of the next page.**

Prewriting/Planning

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DO NOT WRITE HERE ↓

Go On



DO NOT WRITE HERE

Now check your writing using this Editing Checklist.

Editing Checklist

- 1** Check your capitalization and punctuation.
- 2** Spell all words correctly.
- 3** Check for sentence fragments or run-on sentences.
- 4** Keep verb tense consistent.
- 5** Make sure subject and verb agree.
- 6** Use words according to the rules of Standard English.
- 7** Remember to paragraph correctly.



STOP! - - - - **STOP!**

ATTENTION!

**Do NOT go on
until you are
told to do so.**



Session 3: English/Language Arts



Whenever you see this icon, you will be doing a writing activity. Your writing will not be scored on your personal opinions or choices, but will be scored objectively on

- how clearly you address the prompt
- how well you organize your ideas
- how effectively you express yourself
- how consistently you use correct paragraphing, grammar, spelling, and punctuation

Be sure to use the rules of Standard English. Standard English is the English commonly used in formal writing. It does not include slang or jargon.

Directions

For Session 3, you will read an article called "Telling Plastic to Bag It" and complete Numbers 1 through 3. You may look back at the article as often as you like. Then you will complete a writing activity.

Go On



Telling Plastic to Bag It

by Patricia Smith

Seattle is the latest United States city to ban plastic grocery bags out of concern for the environment.



Two years ago, a dead gray whale washed ashore in Seattle’s Puget Sound. When scientists examined the contents of the whale’s stomach, they found more than 20 plastic bags.

“It was a gut-wrenching experience for me,” says Robb Krehbiel, 23, of Seattle. “Nothing that we use for a few minutes should ever end up in the belly of a whale. That’s just so wrong.”

Krehbiel has been working on a campaign to ban plastic grocery bags in Seattle. The ban passed in December, 2011, and went into effect July 1, 2012.

Seattle will join cities like San Francisco; San Jose, California; Portland, Oregon; Brownsville, Texas; and Westport, Connecticut, as well as the Outer Banks of North Carolina and several counties in Hawaii, that have already banned plastic grocery bags. And Washington, D.C., has begun charging a five-cent tax on plastic bags to discourage customers from using them.

Since 2009, 12 states have considered a variety of plastic-bag bans, according to the National Conference of State Legislatures. No statewide bans have passed. But the list of cities and counties with bag bans is growing.

Americans use between 70 billion and 100 billion plastic bags annually, with families taking home an average of 1,500 a year.

Paper vs. Plastic

Environmental groups say plastic bags, which are made from petroleum products, increase America’s dependence on oil and are a chief cause of litter. It takes about 12 million barrels of oil to make the plastic bags used in the United States annually. Most plastic bags eventually end up in landfills, where it can take hundreds of years for them to decompose. But first, or instead, many become litter.

“They’re hanging from trees and littering our beaches,” says Eric Goldstein of the National Resources Defense Council, an environmental group.

Plastic bags are also a major source of pollution in the ocean, where they can harm sea turtles and other ocean creatures that mistake the bags for food and eat them.

But Mark Daniels of Hilex Poly, a plastics maker based in South Carolina, calls the bans “badly misguided efforts.”

He says 90 percent of Americans already reuse plastic grocery bags—as garbage bags, to pack school lunches, and to store household items.

“Moving consumers away from plastic bags only pushes people to less environmentally friendly options, such as paper bags, which require more energy to produce and transport, and reusable bags, which are not recyclable,” Daniels says.

The plastic-bag manufacturing industry employs 10,000 Americans, and bans jeopardize those jobs, the industry says.

The United States is not the only place where bans have been instituted. Plastic bags are now banned in several nations including China, Italy, France, Bangladesh, Brazil, and Rwanda. Other countries tax plastic bags to discourage their use. In Ireland, for example, a 15-cent-per-bag tax introduced in 2002 has reduced their use by more than 90 percent.

Bans on Plastic Bottles and Bags

Environmentalists in recent years have also targeted disposable plastic bottles for many of the same reasons they’ve set their sights on bags. The town of Concord, Massachusetts; several national parks, including the Grand Canyon; and a growing list of universities now ban the sale of disposable water bottles. A handful of big cities, like San Francisco and Seattle, ban the sale of plastic water bottles in government offices.

Go On 

The plastic-bag bans already in effect have had a dramatic effect on litter, some officials say. In Brownsville, Texas, a plastic-bag ban in place for more than a year has eliminated more than 350,000 bags per day, according to former Mayor Pat Ahumada. He says the ban “transformed our city from littered and dirty to a much cleaner city.”

Under the Seattle ban, plastic bags will still be available for produce and bulk grocery items. The new law also imposes a five-cent fee on paper bags.

Three years ago, Seattle city officials approved a 20-cent-per-bag fee on paper and plastic bags. The idea was to create a financial incentive to reduce pollution; the fee was supposed to prompt people to bring reusable bags with them to shop.

But before the 2008 fee could take effect, the plastic-bag industry led a petition drive that forced the issue onto a citywide ballot. In August 2009, in the midst of the recession and after the industry spent \$1.4 million on the campaign, Seattle voters rejected the fee. It’s not yet clear if the plastic-bag industry will mount a similar campaign this time.

If there’s a fight, Krehbiel, the Seattle activist, will be one of those arguing to keep the ban.

“It’s not going to be a silver bullet that solves all our environmental problems,” he says. “But my thinking is you do what you can, when you can, where you can.”

1 If the movement to ban plastic bags and bottles spreads to other cities and states, what arguments would opponents of the ban MOST LIKELY use to prevent plastic-bag and bottle bans from being successful? Support your answer with details from the article.

DO NOT WRITE HERE

2 Explain why the author uses imagery to provoke an emotional reaction from the reader. Support your answer with details from the article.

3 How are statistics used to support the author’s claim that plastic bottles and bags are harming the environment? Support your answer with details from the article.

DO NOT WRITE HERE

Go On



4 Read these lyrics from the song "Back Home Again in Indiana." Then complete the writing activity that follows.

Back home again in Indiana
 And it seems that I can see
 The gleaming candlelight, still shining bright
 Through the sycamores for me
 The new mown hay sends all its fragrance
 From the fields I used to roam
 When I dream about the moonlight on the Wabash
 Then I long for my Indiana home

Think about a place that is special to you. This place could be in Indiana, as suggested by the lyrics in the song, or someplace else—even in your imagination. Write a description of this special place and tell why it is meaningful to you.



Use the blank Prewriting/Planning space below for notes, lists, webs, outlines, or anything else that might help you plan your writing. If you need additional paper for planning, raise your hand and your teacher will give you more paper. **You must write your final draft on the lines beginning at the top of the next page.**

Prewriting/Planning

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Go On





Use the Editing Checklist on page 30. Check your description for correct grammar, spelling, punctuation, and capitalization. **Remember, your description should be well organized.**

Lined writing area with horizontal lines for text entry.

DO NOT WRITE HERE

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Handwriting practice lines consisting of 15 horizontal lines.

Now check your writing using this Editing Checklist.

Editing Checklist

- 1** Check your capitalization and punctuation.
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Applied Skills Assessment

Mathematics • English/Language Arts

Grade 8

